

**What is claimed is:**

1. An execution architecture for a netcentric computing system, comprising:  
a client connected with a server;  
wherein said client includes a presentation service, an information service, a  
5 communication service, a communication fabric service, a transaction service, an  
environment service and a business logic service; and

wherein said server includes a base service, said information service, said  
communication service, said communication fabric service, said transaction service,  
said environment service and said business logic service.

10 2. The execution architecture of claim 1, wherein said presentation service may  
be selected from the group consisting of a desktop manager service, a direct manipulation  
service, a forms service, an input device service, a report and print service, a user  
navigation service, a web browser service and a window system service.

15 3. The execution architecture of claim 2, wherein said web browser service  
may be selected from the group consisting of a browser extension service, a web browser  
form service and a web browser user navigation service.

20 4. The execution architecture of claim 1, wherein said information services  
comprise database services and document services.

25 5. The execution architecture of claim 4, wherein said database services may be  
selected from the group consisting of a database storage service, a database indexing  
service, a database security service, a database access service and a database  
replication/synchronization service.

30 6. The execution architecture of claim 4, wherein said document services may  
be selected from the group consisting of a document storage service, a document indexing  
service, a document security service, a document access service, a document  
replication/synchronization service and a document versioning service.

7. The execution architecture of claim 1, wherein said communication service may be selected from the group consisting of a messaging service, a communication security service, a virtual resource service and a directory service.

5 8. The execution architecture of claim 7, wherein said messaging service comprise core messaging services and specialized messaging services.

9. The execution architecture of claim 8, wherein said core messaging service may be selected from the group consisting of a file transfer service, a remote procedure call 10 service, a message-oriented service and a streaming service.

10. The execution architecture of claim 8, wherein said specialized messaging services may be selected from the group consisting of an E-mail service, a database access messaging service, a object request broker messaging service, a computer-telephone 15 integration messaging service, an electronic data interchange messaging service and a legacy integration messaging service.

11. The execution architecture of claim 7, wherein said communication security service may be selected from the group consisting of an encryption service, an 20 identification/authentication service and an access control service.

12. The execution architecture of claim 7, where said virtual resource service may be selected from the group consisting of a fax service, a file sharing service, a paging service, a phone service, a terminal service, a printing service and an audio/video service. 25

13. The execution architecture of claim 1, wherein said communications fabric service comprises a transport service and a network media service.

14. The execution architecture of claim 13, wherein said transport service may 30 be selected from the group consisting of a message transport service, a packet forwarding/Internetworking services, a circuit switching service, a transport security service, a network address allocation service and a quality of service.

15. The execution architecture of claim 13, wherein said network media service may be selected from the group consisting of a media access service and a physical media access service.

5 16. The execution architecture of claim 1, wherein said environment service may be selected from the group consisting of a runtime service, a system service, an application service, a component framework service and an operating system service.

10 17. The execution architecture of claim 16, wherein said runtime service comprise language interpreter services and virtual machine services.

15 18. The execution architecture of claim 16, wherein said system service may be selected from the group consisting of a system security service, a profile management service, an environment verification service and a task and memory management service.

15 19. The execution architecture of claim 16, wherein said application service may be selected from the group consisting of an application security service, an error handling/logging service, a state management service, a code table service, an active help service, a file service, an application integration interface service and a common service.

20 20. The execution architecture of claim 1, wherein said transaction service may be selected from the group consisting of a transaction monitor service, a resource management service, a transaction management service and a transaction partitioning service.

25 21. The execution architecture of claim 1, wherein said base service may be selected from the group consisting of a web server service, a push/pull service, a batch processing service, a report service and a workflow service.

30 22. The execution architecture of claim 1, wherein said business logic service comprises interface logic, application logic and database abstraction.

35 23. A development architecture for a netcentric computing system, comprising:  
a development organization framework layer;

a development process framework layer; and  
a development tools framework layer.

24. The development architecture of claim 23, wherein said development  
5 organization framework layer comprises an information management team, a quality team,  
an environment management team, a release management team, a configuration  
management team, a problem management team, a program and project management team  
and a security management team.

10 25. The development architecture of claim 23, wherein said development process  
framework layer comprises a system building service, a management process service, a  
security management process service, a quality management process service, a program and  
project management process service, an environment management process service, a release  
management process service, a configuration management process service and a problem  
15 management process service.

26. The development architecture of claim 25, wherein said information process  
management service may be selected from the group consisting of a repository management  
service, a folder management service, a media content management service and an object  
20 management service.

27. The development architecture of claim 25, wherein said environment process  
management service may be selected from the group consisting of a managing change  
service, a service management service, a service planning service and a systems  
25 management service.

28. The development architecture of claim 25, wherein the systems building  
service comprises a analysis and design service, a reverse engineering service, a packaged  
component integration service, a construction service and test service.  
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29. The development architecture of claim 23, wherein said development tools  
framework layer comprises a system building tool, an information management tool, a  
security management tool, a quality management tool, a program and project management

tool, an environment management tool, a release management tool, a productivity tool, a collaboration tool and a process integration tool.

30. The development architecture of claim 29, wherein said collaboration tool  
5 may be selected from the group consisting of an e-mail tool, a teamware tool, a group  
scheduling tool, an audio/visual conference tool and a shared workplace system.

31. The development architecture of claim 29, wherein said information  
management tool is responsible for repository management, folder management, media  
10 content management and object management.

32. The development architecture of claim 29, wherein said quality management  
tool may be selected from the group consisting of a metric tool, a statistical process control  
tool, a continuous improvement tool and a training tool.

15 33. The development architecture of claim 29, wherein said configuration  
management tool may be selected from the group consisting of a version control tool, a  
change control tool and a migration control tool.

20 34. The development architecture of claim 29, wherein said environment  
management tool may be selected from the group consisting of a service management tool,  
a systems management tool, a managing change tool and a service planning tool.

25 35. The development architecture of claim 34, wherein said systems management  
tool may be selected from the group consisting of a startup and shutdown tool, a back-up  
and restore tool, an archiving tool, a security tool and a performance and monitoring tool.

30 36. The development architecture of claim 29, wherein said system building tool  
may be selected from the group consisting of an analysis and design tool, a reverse  
engineering tool, a package component integration tool, a construction tool and a test tool.

35 37. The development architecture of claim 36, wherein said analysis and design  
tool may be selected from the group consisting of a data modeling tool, a process modeling  
tool, an event modeling tool, a performance modeling tool, a object modeling tool, a  
component modeling tool, a reuse support tool, a prototyping tool, an application logic

design tool, a database design tool, a presentation design tool, a communication design tool and a usability test tool.

38. The development architecture of claim 36, wherein said reverse engineering  
5 tool may be selected from the group consisting of an interactive navigation tool, a graphical representation tool, an extraction tool, a repository population tool, a restructuring tool and a data name rationalization tool.

39. The development architecture of claim 36, wherein said construction tool  
10 may be selected from the group consisting of a source code editor, a compiler/linker/interpreter, a generation tool, a debugging tool, a quality assurance utility, a code/object library tool and a media content creation tool.

40. The development architecture of claim 36, where said test tool may be  
15 selected from the group consisting of a test data management tool, a test data manipulation tool, a test planning tool, a test execution tool, a performance management tool, an emulation tool, a test result comparison tool, a test coverage management tool and a SIR management tool.

20 41. An operations architecture for a netcentric computing system, comprising:  
a operations integration architecture component;  
a network/systems management component;  
a solution availability component;  
a service management component;  
25 a configuration management component;  
a physical site management component;  
an operations data architecture;  
an operations execution architecture; and  
an operations development architecture.

30 42. The operations architecture of claim 41, wherein said operations integration architecture comprise an integration framework and a monitoring component.

43. The operations architecture of claim 42, wherein said integration framework includes an applications program interface and an enterprise management console.

44. The operations architecture of claim 41, wherein said network/systems management component may be selected from the group consisting of a network management tool, a database management tool, an application management tool, a production scheduling tool, an output/print management tool and a security management tool.

45. The operations architecture of claim 44, wherein said network management tool may be selected from the group consisting of a network monitoring component and a network configuration management component.

46. The operations architecture of claim 44, wherein database management component may be selected from the group consisting of a database performance monitoring service and a backup preparation service.

47. The operations architecture of claim 44, wherein said output/print management tool may be selected from the group consisting of a output job and queue manager and a physical device manager.

48. The operations architecture of claim 41, wherein said solutions availability component may be selected from the group consisting of a backup/storage/recovery management component and a failover management component.

49. The operations architecture of claim 48, wherein said backup/storage/recovery management component includes an enterprise manager component and a schedule and automation component.

50. The operations architecture of claim 41, wherein said service management component may be selected from the group consisting of a service desk component, a capacity planning component, a user administration component and a service level management component.

51. The operations architecture of claim 50, wherein said service desk component includes a workflow automation service, a service desk database, an incident querying capability service and a service desk reporting service.

5 52. The operations architecture of claim 50, wherein said capacity planning component includes a data collection agent, a scenario modeling agent and a data capture agent.

10 53. The operations architecture of claim 41, wherein said configuration management components may be selected from the group consisting of a software distribution/file transfer component, an asset management component, a change control component, a migration control component and a systems configuration management component.

15 54. The operations architecture of claim 53, wherein said asset management component includes inventory management tools and license management tools.

20 55. The operations architecture of claim 53, wherein said change control component includes a change control workflow automation application, a change control database and a change control reporting service.

25 56. The operations architecture of claim 41, wherein said physical site management component includes a UPS/generator component, a raised floor, a fire suppression and climate control system, a plurality of wiring/cabling and a disaster recovery component.